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GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE ALHAMBRA, CALIFORNIA 91803-1331 Telephone: (626) 458-5100 http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO: P.O. BOX 1460 ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE

REFER TO FILE: PR-0

September 15, 2009

TO: Each Supervisor

FROM: Bob Spencer

Chief, Public Affairs

AUGUST 2009 WILDFIRES – DIRECTOR'S REPORT NO. 5 SEPTEMBER 15, 2009 – 9:00 A.M.

On behalf of Director, Gail Farber, I am pleased to provide you with this latest update of Public Works' continuing activities related to the August wildfires.

On September 8, the Board of Supervisors adopted a Resolution authorizing Public Works to negotiate and execute emergency contracts on behalf of the County to restore access to residents and businesses and to prevent and reduce potential flooding and damage due to mudflows. While some assessments are still being completed, tree removal contractors are already at work and quotations for guardrail replacement will be solicited beginning tomorrow (September 15, 2009). Contracts for culvert upgrades and cleanout will be sought as soon as inspection of the 430 culvert locations is completed. We will also conduct sediment removal at nine fire-impacted debris basins beginning September 21, with estimated completion by October 1.

On September 9, the Director and other key Public Works officials toured some of the burn areas, where they were briefed by field personnel. While road crews continue clearing debris, rocks and sloughage materials and providing barricades, closed signs and changeable message signs throughout the burn areas, the imminent full containment of the fires means that Public Works' efforts are now focused fully on damage assessment, repair and recovery. Individual Public Works Divisions are stepping up meetings with other agencies to coordinate these efforts. In addition, we are developing a comprehensive, multi-agency public information/outreach program to regularly inform County and city officials and residents of repair and recovery progress and to educate and alert affected residents of the potential risk from post-fire floods and mud slides.

As additional burn areas are declared safe to enter, the full extent of the disaster is now becoming evident. Estimated damage to Public Works infrastructure to date is approximately \$5.3 million. Vital upgrades to roadway culverts and debris basins to

protect the public from anticipated storm and debris flows are needed at an estimated cost of \$11.2 million. These estimates may increase as the Station fire continues to burn and if there is additional damage from debris flows associated with future rainstorms. We are currently coordinating with the Chief Executive Office to pursue potential reimbursement from the State Office of Emergency Services.

Current known Public Works facilities damage statistics include 95 damaged guardrail locations, 800 road signs damaged or destroyed, 850 burned trees (including 260 trees on Angeles Crest Highway, 80 on Big Tujunga Road, and 38 on Mt. Wilson Road), 20 miles of roadway striping destroyed, and 13 alert rain gage stations damaged. The Assistant Dam Operator's residence at Big Tujunga Dam and the RD557 (Mill Creek) office and crew quarters were destroyed. In addition, the fires caused damage to power and communications systems, water tanks, and the Mill Creek road weather information system.

COORDINATED AGENCY RECOVERY EFFORT (CARE)

In order to keep County and city officials and residents fully appraised of the recovery efforts and to expand educational outreach about mudflow protection and safeguards, Public Works is establishing and implementing a comprehensive joint information and public outreach program as a component of the Board's recently-delegated authority to fast-track repairs and minimize the risks of potential mudslides and floods. To be known as the Coordinated Agency Recovery Effort, or CARE, this cooperative, inter-agency program will include the transportation, flood, Building Official and public relations components of Public Works, the US Forestry Service (USFS) and the National Incident Management Organization (NIMO) as its core participants. Other agencies will be added when applicable. It will operate from Public Works' headquarters in Alhambra.

The goal of the Program is to share joint information and communiques with County and city officials, city managers and residents relating to recovery and repair efforts and progress as well as potential hazards in the fires' aftermath. This will be achieved through media releases, bulletins, public service announcements and the Public Works website. As well as local media outlets and other distribution sources, CARE will utilize city newsletters and cable TV channels to disseminate information, including materials currently distributed by the Flood Control District relating to storm preparation and protection. CARE will also develop unified and updated talking points together with a speakers bureau to be made available, if requested, to provide information at public and community meetings.

Full reports about CARE operations and activities will be provided regularly for Board offices. CARE will be restricted to the dissemination of information about post-fire damage repair and recovery efforts and mudflow and flood risks.

ADDITIONAL NOTIFICATIONS

Since the Director's last report on September 3, we have initiated several additional notifications for those seeking information about road closures and further fire updates. Road closures and eNotify applications have been added to the County's internet home page. Two additional links, 'Current Information on Fires' and 'Road Closures' have been highlighted on the Public Works internet home page. Following the deployment of CARE, the Public Works home page will be further developed to include additional links offering news and information about post-fire programs, services and agencies. Meanwhile, KNX News Radio has added the Public Works 'Road Closures' link to its own website at www.knx1070.com.

To date, Public Works Engineering Advice Teams have provided advice to to about 80 residences within the City of La Canada Flintridge and the unincorporated County area of La Cresenta. The teams continue to assess potential impacts and provide advice to residents. Public Works has also created a toll free number for residents with questions or in need of flood control advice. That number is (800) 214-4020.

ROADS AND HIGHWAYS

Public Works is coordinating with Caltrans to develop a plan and schedule for reopening Angeles Forest Highway in conjunction with Angeles Crest Highway. Caltrans says that Angeles Crest Highway will remain closed for several weeks. Other key County road closures include Big Tujunga Canyon Road – L.A. City Boundary/Angeles Forest Highway; Upper Big Tujunga Road – Angeles Forest Highway/Angeles Crest Highway; Glendora Mountain Road; East Fork Road; and Mt. Wilson Red Box Road. Needed repairs include replacement of road signs and guard rails, replacement of catch basin covers, removal of fire-impacted trees, assessment of roadway drainage structures, and new roadway striping.

Road crews continue clearing debris, providing rock runs and road patrols, and replacing overshot/drain markers. Crews also continue cleanup of sloughage on Big Tujunga Canyon Road and transporting sloughage materials at the dump site. Engineers are assessing about 430 drainage inlets to determine what improvements may be needed as a result of the fires. Fire-impacted trees are already being removed and about 342 traffic signs have already been replaced.

FLOOD CONTROL SYSTEM

Public Works staff has reviewed the capacities for seven debris basins and is preparing recommendations to increase the capacity at each. Nine debris basins tributary to the burned watershed will be scheduled for cleanout prior to the start of the rainy season due to the burned watershed condition. All cities affected by the fires have been contacted to obtain approval to provide engineering advice to their residents. To date, Engineering Advice Teams have provided advice to about 80 residences within the City of La Canada-Flintridge and the unincorporated County area of La Cresenta.

All Flood Control District dams are operational. The Dam Operators and Assistant Dam Operators remain evacuated from Big Tujunga Dam, Cogswell, San Gabriel Dam, and Morris Dam.

AVIATION

Aerial firefighting operations continue to be supported at Brackett Field, La Verne (SD5) and General Wm. J. Fox Airfield, Lancaster (SD5). In addition, the Fire Department is using San Gabriel Dam for staging/water reloading for helicopter firefighting, and is using the Sawpit SPS in the City of Monrovia as a staging area and heliport.

MEDIA

We continue to field media calls concerning the potential flood and mudslide risk in the aftermath of the fire and the coming winter season. Inquiries received so far have come from City News Service, Associated Press, the Pasadena Star News, KTTV Fox 11 News, KTLA5, the La Canana-Flintridge Outlook, and KNX 1070 FM.

Media contacts to Public Works should be directed to Bob Spencer, Chief, Public Affairs, at (626) 458-4070 (office) or (626) 703-7400 (cell); or to Gary Boze, Public Information Officer, at (626) 458-4094 (office) or (213) 703-6483 (cell).

Public Works remains on standby in the event of further requests for assistance. Additional Director's Reports will be provided in the future as new or additional information becomes available.

BS

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cc: Chief Executive Office (Sheehan)

Executive Office

bc: Director

Assistant Directors Deputy Directors



COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

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> IN REPLY PLEASE REFER TO FILE: PR-0

September 22, 2009

TO:

Each Supervisor

FROM: Gail Farber Hain Farlur.

Director of Public Works

AUGUST/SEPTEMBER 2009 WILDFIRES DISASTER RECOVERY REPORT – SEPTEMBER 22, 2009

On September 8, 2009, you adopted a resolution authorizing Public Works to negotiate and execute emergency contracts on behalf of the County to restore access to residents and businesses and to prevent and reduce potential flooding and damage due to mudflows. As part of the obligations of that resolution, I am pleased to provide you with the attached report and update on our progress.

Estimated damage to Public Works' infrastructure to date is approximately \$5.5 million. Vital upgrades to roadway culverts and debris basins to protect the public from anticipated storm and debris flows are needed at an estimated cost of \$11.2 million. These estimates may increase if there is additional damage from debris flows associated with future rainstorms. It is anticipated that a significant portion of our expenditures will be reimbursed by the California Emergency Management Agency and the Federal Highway Administration.

While some assessments are still being completed, tree removal contractors are already at work and quotations for guardrail replacement are currently being solicited. Contracts for culvert upgrades and cleanouts will be sought as soon as inspection of the 430 culvert locations is completed. We also began conducting sediment removal at nine priority debris basins on Monday, September 21, 2009, with estimated completion by October 15, 2009.

On September 9, 2009, I took the opportunity to tour some of the burn areas together with key members of my staff and recovery team. Since that time, we have held several ioint meetings with other agencies involved in the repair and recovery efforts, including the United States Forest Service, the National Incident Management Organization, the Each Supervisor September 22, 2009 Page2

Burn Area Emergency Response (BAER) team, Los Angeles County Sheriff's Department, Los Angeles County Fire Department, California Highway Patrol, and Caltrans. As well as coordinating highway recovery and reopening plans, the team is currently developing a plan to restore access for area residents under strictly controlled conditions while the roads are still being repaired. Currently, the areas are open only to emergency personnel, utilities and their contractors, and Public Works.

Public Works is also continuing to develop public outreach plans as part of the Coordinated Agency Recovery Effort (CARE) public outreach and education campaign, approved by the Board September 15, 2009. In the next few weeks, Public Works staff will be making presentations about our coordinated recovery efforts at council and town hall meetings. We are developing a public service announcement and DVD about the dangers of mud and debris flows and how to prepare for such emergencies.

Public Works is also offering free engineering advice to homeowners affected by the fires and concerned about erosion, mud flows, and related issues. A toll free hotline number, (800) 214-4020, has been established and is staffed by qualified Public Works individuals.

On a closing note, I am pleased to report that thanks to the outstanding and dedicated efforts of Public Works personnel, we have already completed the replacement of 814 road signs and 4,300 raised pavement markers and restriped 47 miles of roadway destroyed in the wildfires. In the weeks ahead, we will be replacing more than 37,000 feet of guardrail and removing approximately 850 burned trees in order to restore minimum safety standards to the burn area transportation system.

Full details and estimates of the assessed damage to date are included in the attached report.

BS:mel
C:\MYFILES\PIO\disaster recovery report 2009.09.22

Attach.

cc: Chief Executive Office (Lari Sheehan)
Executive Office

Note: Any new and/or updated information is shown in bold and italic font.

Total Damage Estimates		
Transportation	\$	3,900,000
Public Works Buildings		1,139,000
Communication Systems		35,000
Flood Control		425,000
Total	\$	5,499,000
Roadway Culvert Upgrades and Debris Basin Clea Necessitated by the Fires	nouts/	Modifications
Transportation	\$	3,811,000
Flood Control		7,400,000
Total	\$	11,211,000
Grand Total	\$	16,710,000
Public Works Expenditures To Date		
(No information available at this time.)		
Total Expenditures (including overtime) Total Encumbrances		
Total Expenditures and Encumbrances		

Total Overtime

TRANSPORTATION

Palos Verdes Fire

No impacts reported.

Morris Fire

Glendora Mountain Road and East Fork Road

Closed on August 25, 2009. No scheduled date to reopen. Wooden covers for rural catch basins and standpipes have been damaged. Road Maintenance Division (RMD) estimates the cost to replace the catch basin covers is \$10,000. An estimate of the cost to replace damaged standpipes is being prepared. A damaged rock headwall at MM 8.02 of Glendora Mountain Road must also be repaired at an estimated cost of \$50,000. Operational Services Division (OSD) reported that 20 signs related to flood control facilities have been damaged/destroyed. *OSD estimates the cost to replace the signs at \$2,500*. *This work will be performed once the area is declared safe to enter.* RMD is continuing to field review the area for additional damage.

Station Fire

Angeles Forest Highway - Mt. Emma Road/Angeles Crest Highway

Closed on August 26, 2009. No scheduled date to reopen. This road has a reported Average Daily Traffic (ADT) volume of 4,544 vehicles. It is a commuter route primarily used by residents of the Antelope Valley. Detour route adds a maximum of 27 miles in travel distance.

Design Division (DES) estimates the cost of guardrail repairs at \$1,050,000. OSD reports that approximately 400 roadway signs have been destroyed and the cost to replace the signs is estimated to be \$80,000. OSD expects to complete the sign replacement work by September 20, 2009. OSD is also restoring the striping and raised pavement markers. This work is expected to be completed by September 20, 2009 at an estimated cost of \$20,000. RMD is working to remove fire-impacted trees (260) and assess roadway drainage structures.

Plans for replacement of the guardrail were completed on September 11, 2009. The construction contract will be awarded by **September 24, 2009**. Construction is estimated to take six weeks and be completed by **November 16, 2009**.

Design Division is evaluating whether a standard concrete barrier rail can be installed to replace the fire-damaged bridge railings on the Mill Creek bridge at Angeles Forest Highway as a separate project. In the interim, Design Division requested MD-5 to install temporary K-rails and crash cushions at this location.

Public Works will coordinate with Caltrans to develop a plan and schedule for reopening Angeles Forest Highway in conjunction with Angeles Crest Highway. Caltrans reports that Angeles Crest Highway will remain closed for at least the next several weeks.

<u>Big Tujunga Canyon Road – L.A. City Boundary/Angeles Forest Highway</u> Closed on August 28, 2009. No scheduled date to reopen. This road has a reported ADT of 825 vehicles. Detour route adds a maximum of 16 miles in travel distance.

DES estimates the cost of guardrail repairs at \$560,000. OSD reports that approximately 200 roadway signs have been destroyed and the cost to replace the signs is estimated to be \$40,000. OSD expects to complete the sign replacement work by September 20, 2009. OSD is also restoring the striping and raised pavement markers. This work is expected to be completed by September 20, 2009 at an estimated cost of \$10,000. RMD is working to remove fire-impacted trees and assess roadway drainage structures.

Plans for replacement of the guardrail were completed on September 16, 2009. The construction contract will be awarded by September 28, 2009. Construction is estimated to take 4 weeks and be completed by November 5, 2009.

<u>Upper Big Tujunga Canyon Road – Angeles Forest Highway/Angeles Crest Highway</u> Closed on August 28, 2009. No scheduled date to reopen. This road has a reported ADT of 176 vehicles.

DES estimates the cost of guardrail repairs at \$1,120,000. OSD reports that approximately 100 roadway signs have been destroyed and the cost to replace the signs is estimated to be \$21,000. OSD expects to complete the sign replacement work by September 20, 2009. OSD is also restoring the striping and raised pavement markers. This work is expected to be completed by September 20, 2009 at an estimated cost of \$9,000. RMD is working to remove fire-impacted trees and assess roadway drainage structures.

Plans for replacement of the guardrail will be completed by **September 21, 2009**. The construction contract will be awarded by **October 1, 2009**. Construction is estimated to take 6 weeks and be completed by **November 24, 2009**.

Aliso Canyon Road – Angeles Forest Highway/Ave Y-8

Closed on August 30, 2009. Reopened on September 3, 2009. DES and RMD estimate that guardrail repairs at bridge approaches *for Bridge No. 3797* will cost *\$49,000*. This work will be included in the guardrail contract for Angeles Forest Highway. OSD reports that approximately 20 roadway signs have been destroyed. The cost to replace the signs is estimated to be *\$5,000*. OSD expects to complete the

sign replacement work by September 20, 2009. OSD is also restoring the striping and raised pavement markers. This work is expected to be completed by September 20, 2009 at an estimated cost of \$3,000. RMD is working to remove fire-impacted trees.

Mt. Emma Road – 47th Street East/Angeles Forest Highway Closed on August 30, 2009. Reopened on September 3, 2009.

Little Tujunga Canyon Road - Gold Creek Road/Sand Canyon Road

Closed on August 29, 2009. Reopened on September 6, 2009. *RMD conducted a detailed survey of the guardrails and found no fire-damaged guardrails. Upon field review, OSD reports no damage to the roadway signs and striping.* RMD is working to remove fire-impacted trees and assess roadway drainage structures.

Sand Canyon Road

Closed on August 29, 2009. Reopened on September 9, 2009. *OSD reports no damage to the roadway signs and striping.*

Mt. Wilson Red Box Road

Closed on August 29, 2009. No scheduled date to reopen. **DES conducted a detailed** survey of the guardrails and found no fire-damaged guardrails. **OSD reports no** damage to the roadway signs. **OSD is restoring the striping, which is expected to** be completed by September 20, 2009, at an estimated cost of \$4,000. RMD is working to remove fire-impacted trees (38) and assess roadway drainage structures.

Other

Needed drainage inlet upgrades, such as trash racks and stand pipes, have been identified by RMD along Angeles Forest Highway, Big Tujunga Canyon Road, Upper Big Tujunga Canyon Road, Aliso Canyon Road, and Mt. Emma Road to protect these road from storm flows. The estimate to install these improvements is \$3,811,000. This work will be done by contract.

The removal of about 850 trees along Angeles Forest Highway, Big Tujunga Canyon Road, Upper Big Tujunga Canyon Road, and Aliso Canyon Road, is estimated to cost \$825,000. This work is being done by force account and emergency contract. **RMD** is currently assessing the number of trees that may need to be removed within the culvert inlet areas.

PUBLIC WORKS BUILDING DAMAGE

Palos Verdes Fire

No impacts reported.

Morris Fire

No impacts reported.

Station Fire

The Assistant Dam Operator's residence at Big Tujunga Dam was destroyed in the Station Fire. FMD estimates the demolition and cost to rebuild will be \$320,000.

The office and crew quarters (1800 sf) at the RD557A yard at Mill Creek were destroyed in the Station Fire. AED estimates the demolition and cost to rebuild will be \$819,000.

OTHER COUNTY DEPARTMENTS BUILDING DAMAGE

No impacts reported.

PRIVATE PROPERTY DAMAGE

Palos Verdes Fire

Three structures in the City of Rolling Hills suffered eave/roof damage. Building and Safety is working with the city to assist residents with erosion control advice and with building permits for any necessary fire damage repairs.

Morris Fire

No impacts reported.

Station Fire

As of September 10, Building and Safety staff has inspected 67 properties with destroyed or damaged structures as reflected in the following table:

OCCUPANCY	DESTROYED (100%)	DAMAGED (<100%)
Dwellings	32	4
Cabins	26	1
Detached Garage	23	3
Accessory (RES)	19	8
Commercial	1	2
Other	8	2
Total	109	20

The number of affected properties/structures may grow as new locations are discovered by the Fire Department and/or reported by the public. Damage estimate is not available at this time.

COMMUNICATIONS SYSTEMS

Palos Verdes Fire

No impacts reported.

Morris Fire

A communication line at the San Gabriel Dam facility was damaged as a result of the Morris Fire. ITD estimates the cost to repair the line is \$5,000.

Station Fire

A communication line and pole at the Pacoima Dam facility were damaged. ITD estimates the cost to repair the line and the pole is \$30,000.

The Road Weather Information System (RWIS) at RD557A (Mill Creek) is not operational. ISD is assessing the cost to repair the system.

Radio sites at Cogswell Dam, Big Tujunga Dam, and Mt. Disappointment will be assessed by ITD to determine the extent of damage and estimate the cost of repairs once the affected areas are declared safe.

FLOOD CONTROL SYSTEM

Palos Verde Fire

No impacts reported.

Morris Fire

No impacts reported to flood control operation. Minor damages were sustained to phone line, power lines and signage in the vicinity of Morris Dam. The cost to repair this damage is approximately \$100,000. Electricity has been restored to Morris Dam.

Post Fire Mudflow impacts to San Gabriel and Morris Dams have been evaluated and recommendations were made for measures to prevent damage to facilities, maintain reliable dam operations, and provide dependable access on site of these dams.

A similar evaluation of Cogswell Dam is pending.

Station Fire

Post Fire Mudflow impacts to Big Tujunga Dam have been evaluated and recommendations were made for measures to prevent damage to facilities, maintain reliable dam operations, and provide dependable access on site.

Eight debris basins in the burn area, **namely**; Dunsmuir, Eagle, Gould, Gould Upper, Mullaly, Pinelawn, Rowley, and Shields **will be cleaned out**. This work is necessary to provide additional capacity for the anticipated increased volume of debris in the coming storm season resulting from the fire. The cost of the debris removal is estimated to be \$2.4 million.

Water Resources Division (WRD) is currently evaluating the need to increase storage capacity at seven debris basins within the fire area namely Big Briar, Mullally, Snover, Pickens, Starfall, Pinelawn, and Rowley. Scope of work and corresponding cost estimates are being developed. Total cost is estimated in excess of \$5 million. In addition, WRD is still investigating and evaluating locations that may require rail and timber structures or similar type of structures to minimize property damage.

OSD electricians are still inspecting the power lines at Big Tujunga Dam. A contractor will be needed to perform the work to bring power to the dam and outlying facilities. OSD estimates the cost will be \$250,000. An internal meeting to discuss project effort and scope is scheduled for September 23, 2009.

Thirteen rain gages and one repeater were damaged or destroyed at Mt. Gleason. The estimated cost to repair the equipment is \$75,000.

WATERWORKS SYSTEMS

No impacts reported.

COUNTY SEWER SYSTEMS

No impacts reported.

COUNTY AIRPORTS

No impacts reported.



GAIL FARBER, Director

COUNTY OF LOS ANGELES

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IN REPLY PLEASE

REFER TO FILE: PR-0

A3168-2

September 30, 2009

TO: Each Supervisor

FROM: Gail Farber Mail Farher Director of Public Works

BOARD MOTION OF SEPTEMBER 8, 2009, AGENDA ITEM 61-A **AUGUST/SEPTEMBER 2009 WILDFIRES DISASTER RECOVERY REPORT - SEPTEMBER 30, 2009**

The August/September series of wildfires resulted in significant damage to County roads and infrastructure in the Angeles National Forest. On September 8, 2009, your Board made a finding that an emergency situation existed that required immediate measures be undertaken to repair the damage, restore access to homes and businesses, and prevent and reduce potential flooding and damage due to mudflows. Your Board authorized the Director of Public Works to negotiate and execute emergency construction contracts, amend existing service contracts, and enter into new short-term contracts. In accordance with the Public Contract Code, Government Code, and County Code, your Board must review the necessity of these emergency contracting procedures every 14 days. As part of this requirement, attached is the second Disaster Recovery Report.

Estimated damage to Public Works' infrastructure to date is now approximately \$9.8 million. Vital upgrades to roadway culverts and debris basins to protect the public from anticipated storm and debris flows are now estimated to cost another \$9.8 million for a total damage assessment of almost \$20 million. We are aggressively pursuing reimbursement through the California Emergency Management Agency and the Federal Highway Administration.

Most of the burn area assessments have been completed. Tree removal contractors are already at work. An estimated 1,200 trees will be removed. Contracts to replace over 37,000 linear feet of metal beam guardrail have been solicited, and over 47 miles of pavement striping and markers have been restored.

Each Supervisor September 30, 2009 Page 2

Contracts for culvert upgrades and cleanouts will be sought as soon as inspection of the 430 culvert locations is completed. Sediment removal at nine fire-impacted debris basins is currently underway in preparation for winter storms.

Angeles Forest Highway and Big Tujunga Canyon Road were reopened under construction zone conditions last Friday, September 25, to local area residents, but through traffic is prohibited. The Angeles National Forest remains closed to the public.

Public Works is also continuing to develop public outreach plans as part of the Coordinated Agency Recovery Effort (CARE) public outreach and education campaign, approved by your Board on September 15, 2009. Office space and equipment have been provided for the CARE team in the Public Works' Headquarters building. US Forest Service (USFS) staff is utilizing the space on a daily basis. The CARE team has grown to include Public Works, USFS, National Incident Management Organization, U.S. Geological Survey (USGS), Natural Resources Conservation Service, and Caltrans. As Public Works transitions from assessment and recovery efforts to emergency preparedness activities, the CARE team will be coordinating its efforts with the County of Los Angeles Fire and Sheriff's Departments and the Office of Emergency Management.

This past week, the CARE team was very busy. On Friday, September 25, 2009, Supervisor Antonovich and the CARE team hosted a meeting for elected officials and staff from 23 communities bordering the Angeles National Forest. The meeting was also attended by other County, State, and Federal agencies. About 160 representatives attended and received initial damage assessments from the Burn Area Emergency Response (BAER) team, Public Works, and the USGS.

The CARE team has also begun developing a speaker's bureau and multi-agency talking points in preparation for community meetings to discuss the fires' impact and the threat of winter mudslides. On behalf of Supervisorial District 5, the CARE team is coordinating a series of city/town council presentations to 19 affected communities. Three meetings have already been held in La Canada-Flintridge and Glendale.

The CARE team is also scripting public service announcements for broadcast on city cable TV channels, including the Danger Debris Flow video. These projects should be completed by October 14, 2009, and will be sent to about 27 communities for broadcast on local cable TV channels.

The CARE team is also working to design a new website featuring a variety of links to fire recovery and storm preparation information. Twitter and YouTube will also be

Each Supervisor September 30, 2009 Page 3

utilized in this outreach effort. The CARE team is compiling a network of city/community newsletters and newspapers for dissemination of updates and alerts on road closures and mudslide education. A toll free number (1-800-214-4020) has been set up to provide technical assistance for residents on constructing mudslide diversions. Public Works' engineers have already visited about 200 properties in burn-affected communities to provide mudslide protection advice to home owners.

It is recommended that your Board determine: (1) there is still a need to continue the emergency action and (2) the Executive Office continue to place this item on the agenda for Board review every 14 days in accordance with Section 22050 of the Public Contract Code, the California Emergency Services Act (Government Code, Section 8550 et seq.), and Section 2.68.120 of the Los Angeles County Code.

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Attach.

cc: Chief Administrative Office (Lari Sheehan)

Executive Office

Total Damage Estimates Transportation Tree Removal Guardrail Repair and Replacement Sign Replacement Striping Restoration Road Shoulder and Culvert Debris Removal Miscellaneous (Catch Basin, Headwall Repairs)	885,000 2,730,000 161,000 46,000 4,348,000 60,000	\$ 8,230,000
Public Works Buildings Assistant Dam Operator House (Big Tujunga Don) Office and Crew Quarters at RD557A sub-yard	am) 320,000 819,000	1,139,000
Communication Systems San Gabriel Dam Pacoima Dam	5,000 30,000	35,000
Flood Control Repair Electrical System at Morris Dam Repair Electrical System at Big Tujunga Dam Repair/Replace Rain Gages and Repeaters	100,000 250,000 75,000	425,000
	Total	\$ 9,829,000
Roadway Culvert Upgrades and Debris Basin Clear Necessitated by the Fires	nouts/Modifications	
Transportation Road Culvert Inlet Upgrades	2,709,000	\$ 2,709,000
Flood Control Debris Basin Cleanouts Debris Basin Modification and Expansion Erosion Barriers	1,800,000 5,000,000 280,000	7,080,000
	Total	\$ 9,789,000
Grand	Total	\$ 19,618,000

TRANSPORTATION

Palos Verdes Fire

No impacts reported.

Morris Fire

Glendora Mountain Road and East Fork Road

Closed on August 25, 2009. No scheduled date to reopen. Wooden covers for rural catch basins and standpipes have been damaged. Road Maintenance Division (RMD) estimates the cost to replace the catch basin covers is \$10,000. An estimate of the cost to replace damaged standpipes is being prepared. A damaged rock headwall at MM 8.02 of Glendora Mountain Road must also be repaired at an estimated cost of \$50,000. Operational Services Division (OSD) reported that 20 signs related to flood control facilities have been damaged/destroyed. OSD estimates the cost to replace the signs at \$2,500. This work will be performed once the area is declared safe to enter. RMD is continuing to field review the area for additional damage.

Station Fire

Angeles Forest Highway – Mt. Emma Road/Angeles Crest Highway

Closed on August 26, 2009. The road was reopened to local residents and emergency personnel only on September 25, 2009. Through traffic is prohibited, with access allowed only from the north or via Big Tujunga Canyon Road through Sunland. Angeles Forest Highway is barricaded at Angeles Crest Highway. This road has a reported Average Daily Traffic (ADT) volume of 4,544 vehicles. It is a commuter route primarily used by residents of the Antelope Valley.

Design Division (DES) estimates the cost of guardrail repairs at \$1,050,000. OSD reports that approximately 400 roadway signs have been destroyed and the cost to replace the signs is estimated to be \$80,000. OSD completed the sign replacement work on September 24, 2009. OSD has also restored the striping and raised pavement markers at an estimated cost of \$20,000. RMD is removing approximately 425 burned trees and is scheduled to complete the work by October 4, 2009. RMD has reviewed 172 existing culverts and has determined 49 locations that need trash rack or standpipe to mitigate the effects of mud/debris flow during storms. Five locations on Angeles Forest Hwy will be done by force account and the rest will be by contract. Contract sketches are currently being prepared and are scheduled to be completed by September 28, 2009. It will take approximately 4-6 weeks for the emergency contract to be awarded. Pending United States Forest Service and other agency approvals/permits, it is anticipated that construction will be completed by January 2010.

Plans for replacement of the guardrail were completed on September 11, 2009. The construction contract was awarded on September 28, 2009. Construction is estimated to take six weeks and be completed by November 16, 2009.

Design Division is evaluating whether a standard concrete barrier rail can be installed to replace the fire-damaged bridge railings on the Mill Creek bridge at Angeles Forest Highway as a separate project. In the interim, DES requested MD-5 to install temporary K-rails and crash cushions at this location.

Public Works will coordinate with Caltrans to develop a plan and schedule for reopening Angeles Forest Highway in conjunction with Angeles Crest Highway. Caltrans reports that Angeles Crest Highway will remain closed for at least the next several weeks.

<u>Big Tujunga Canyon Road – L.A. City Boundary/Angeles Forest Highway</u> Closed on August 28, 2009. The road was reopened to local residents and emergency personnel only on September 25, 2009. Through traffic is prohibited. This road has a reported ADT of 825 vehicles.

DES estimates the cost of guardrail repairs at \$560,000. OSD completed the replacement of 200 roadway signs effective September 24, 2009, at an estimated cost of \$40,000. OSD has also restored the striping and raised pavement markers at an estimated cost of \$10,000. RMD is removing approximately 170 burned trees and is scheduled to complete the work by October 4, 2009. RMD has reviewed 60 existing culverts and has determined 36 locations that need trash rack or standpipe to mitigate the effects of mud/debris flow during storms. Contract sketches are currently being prepared and are scheduled to be completed by September 28, 2009. It will take approximately 4-6 weeks for the emergency contract to be awarded. Pending United States Forest Service and other agency approvals/permits, it is anticipated that construction will be completed by January 2010.

Plans for replacement of the guardrail were completed on September 16, 2009. The construction contract will be awarded by September 28, 2009. Construction is estimated to take 4 weeks and be completed by November 5, 2009.

<u>Upper Big Tujunga Canyon Road – Angeles Forest Highway/Angeles Crest Highway</u> Closed on August 28, 2009. The road was reopened to local residents and emergency personnel only on September 25, 2009. Through traffic is prohibited. Access is available via Angeles Forest Highway, with a hard closure at Angeles Crest Highway. This road has a reported ADT of 176 vehicles.

DES estimates the cost of guardrail repairs at \$1,120,000. OSD has replaced the approximately 100 roadway signs effective September 24, 2009, at an estimated cost of \$21,000. OSD completed the sign replacement work September 24, 2009. OSD has

also restored the striping and raised pavement markers at an estimated cost of \$9,000. RMD is working to remove approximately 255 burned trees and is scheduled to have it completed by October 4, 2009. RMD has reviewed 84 existing culverts and have determined 36 locations that need trash rack or standpipe to mitigate the effects of mud/debris flow during storms. Contract sketches are currently being prepared and are scheduled to be completed by September 28, 2009. It will take approximately 4-6 weeks for the emergency contract to be awarded. Pending United States Forest Service and other agency approvals/permits, it is anticipated that construction will be completed by January 2010.

Plans for replacement of the guardrail were completed September 21, 2009. The construction contract will be awarded by October 1, 2009. Construction is estimated to take 6 weeks and be completed by November 24, 2009.

Aliso Canyon Road – Angeles Forest Highway/Ave Y-8

Closed on August 30, 2009. Reopened on September 3, 2009. DES and RMD estimate that guardrail repairs at bridge approaches for Bridge No. 3797 will cost \$49,000. This work will be included in the guardrail contract for Angeles Forest Highway. OSD has replaced the approximately 20 roadway signs that were destroyed by the fires at an estimated cost of \$5,000. OSD has also restored the striping and raised pavement markers at an estimated cost of \$3,000.

Mt. Emma Road – 47th Street East/Angeles Forest Highway Closed on August 30, 2009. Reopened on September 3, 2009.

<u>Little Tujunga Canyon Road - Gold Creek Road/Sand Canyon Road</u>

Closed on August 29, 2009. Reopened on September 6, 2009. RMD conducted a detailed survey of the guardrails and found no fire-damaged guardrails. Upon field review, OSD reports no damage to the roadway signs and striping. RMD found no trees or roadway drainage structures impacted by the fire.

Sand Canyon Road

Closed on August 29, 2009. Reopened on September 9, 2009. OSD reports no damage to the roadway signs and striping. RMD found no trees or roadway drainage structures impacted by the fire.

Mt. Wilson Red Box Road

Closed on August 29, 2009. The road was reopened by emergency personnel on September 28, 2009. DES conducted a detailed survey of the guardrails and found no fire-damaged guardrails. OSD reports no damage to the roadway signs. OSD has restored the striping at an estimated cost of \$4,000. RMD is working to remove fire-impacted trees (38) and expects to have it completed by October 4, 2009. RMD has

assessed roadway drainage structures and recommended trash rack/standpipes at 8 locations. This work will be done by County forces.

Other

Needed drainage inlet upgrades, such as trash racks and stand pipes, have been identified by RMD along Angeles Forest Highway, Big Tujunga Canyon Road, Upper Big Tujunga Canyon Road, and Mt. Wilson Red Box Road to protect these roads from storm flows. The estimate to install these improvements is \$1,935,000 of which \$151,000 will be done by force account and \$1,784,000 by contract. Contract sketches are currently being prepared and are scheduled to be completed by September 28, 2009. It will take approximately 4-6 weeks for the emergency contract to be awarded. Pending United States Forest Service and other agency approvals/permits, it is anticipated that construction will be completed by January 2010.

The removal of about 1,200 trees along Angeles Forest Highway, Big Tujunga Canyon Road, Upper Big Tujunga Canyon Road, Mt. Wilson Red Box Road, and Aliso Canyon Road, is estimated to cost \$835,000. This work is being done by force account and emergency contract. Approximately 1,170 burned trees have been removed by both asneeded contractors and County forces as of September 28, 2009. The tree removals are expected to be completed by October 4, 2009. RMD estimates approximately 1,000 trees/shrubs need to be removed within the culvert inlet areas that will be done by force account at an estimated cost of \$275,000. This work is scheduled to be completed by November 16, 2009.

RMD estimates approximately 340 culvert markers were burned and will need to be replaced at an estimated cost of \$12,000. Approximately 130 have been replaced to date at an estimated cost of \$4,800.

The total number of raised reflective markers installed to date is 4,300.

PUBLIC WORKS BUILDING DAMAGE

Palos Verdes Fire

No impacts reported.

Morris Fire

No impacts reported.

Station Fire

The Assistant Dam Operator's residence at Big Tujunga Dam was destroyed in the Station Fire. FMD estimates the demolition and cost to rebuild will be \$320,000.

The office and crew quarters (1800 sf) at the RD557A yard at Mill Creek were destroyed in the Station Fire. AED estimates the demolition and cost to rebuild will be \$819,000.

OTHER COUNTY DEPARTMENTS BUILDING DAMAGE

No impacts reported.

PRIVATE PROPERTY DAMAGE

Palos Verdes Fire

Three structures in the City of Rolling Hills suffered eave/roof damage. Building and Safety (B&S) is working with the city to assist residents with erosion control advice and with building permits for any necessary fire damage repairs.

Morris Fire

No impacts reported.

Station Fire

As of September 10, B&S staff has inspected 67 properties with destroyed or damaged structures as reflected in the following table:

OCCUPANCY	DESTROYED (100%)	DAMAGED (<100%)
Dwellings	32	4
Cabins	26	1
Detached Garage	23	3
Accessory (RES)	19	8
Commercial	1	2
Other	8	2
Total	109	20

The number of affected properties/structures may grow as new locations are discovered by the Fire Department and/or reported by the public. Damage estimate is not available at this time.

COMMUNICATIONS SYSTEMS

Palos Verdes Fire

No impacts reported.

Morris Fire

A communication line at the San Gabriel Dam facility was damaged as a result of the Morris Fire. ITD estimates the cost to repair the line is \$5,000.

Station Fire

Communication lines and poles at the Big Tujunga Dam facility were damaged. ITD will work with OSD to determine reconstruction options (e.g. poles versus underground) and provide estimated costs. ITD is unaware of communication damage to Pacoima Dam as a result of the Station Fire.

The Road Weather Information System (RWIS) at RD557A (Mill Creek) is not operational. ISD is assessing the cost to repair the system.

ITD determined there is no communication damage to Cogswell Dam and Mt. Disappointment. Both sites are on generator power.

FLOOD CONTROL SYSTEM

Palos Verde Fire

No impacts reported.

Morris Fire

No impacts reported to flood control operation. Minor damages were sustained to phone line, power lines, and signage in the vicinity of Morris Dam. The cost to repair this damage is approximately \$100,000. Electricity has been restored to Morris Dam.

Post Fire Mudflow impacts to San Gabriel, Morris, and Cogswell Dams have been evaluated and recommendations were made for measures to prevent damage to facilities, maintain reliable dam operations, and provide dependable access on site of these dams.

Station Fire

Post Fire Mudflow impacts to Big Tujunga Dam have been evaluated and recommendations were made for measures to prevent damage to facilities, maintain reliable dam operations, and provide dependable access on site.

Eight debris basins in the burn area, namely Dunsmuir, Eagle, Gould, Gould Upper, Mullaly, Pinelawn, Rowley, and Shields will be cleaned out prior to October 15, 2009. This work is necessary to provide additional capacity for the anticipated increased volume of debris in the coming storm season resulting from the fire. The cost of the debris removal is estimated to be \$1.8 million.

Water Resources Division (WRD) is currently evaluating the need to increase storage capacity at seven debris basins within the fire area namely Big Briar, Mullally, Snover, Pickens, Starfall, Pinelawn, and Rowley. Scope of work and corresponding cost estimates are being developed. Total cost is estimated in excess of \$5 million. In addition, WRD is still investigating and evaluating locations that may require rail and timber structures or similar type of structures to minimize property damage.

Public Works Engineering Advice Teams have provided advice to approximately 275 residences within the City of La Canada-Flintridge and the unincorporated County areas of La Crescenta, Big Tujunga, and Acton. The City of Glendale has requested assistance with providing Engineering Advice to their residents. Reconnaissance of impacted properties within the City were investigated on Monday, September 28, and Tuesday, September 29. Engineering Advice Teams will be deployed thereafter.

OSD completed their inspection of the power lines at Big Tujunga Dam and an initial recovery scoping meeting with FMD, WRD, and OSD occurred on September 23, 2009. Electrical upgrades may likely be constructed with the recovery process. WRD will be providing project updates with schedules and estimates. A contractor will be needed to perform the work to bring power to the dam and outlying facilities.

Thirteen rain gages and one repeater were damaged or destroyed at Mt. Gleason. The estimated cost to repair and/or replace the equipment is \$75,000.

WATERWORKS SYSTEMS

No impacts reported.

COUNTY SEWER SYSTEMS

No impacts reported.

COUNTY AIRPORTS

No impacts reported.

County of Los Angeles Department of Public Works AUGUST/SEPTEMBER 2009 WILDFIRES EVENTS EMERGENCY CONSTRUCTION CONTRACTS

			ESTIMATED	CONSTR	RUCTION
ID	PROJECT NAME	DESCRIPTION/SCOPE OF WORK	CONTRACT COST	ESTIMATED START DATE	ESTIMATED FINISH DATE
1	Station Fire - Angeles Forest Highway Guard Rail Replacement	Guard Rail Restoration	\$ 600,000	October 2009	November 2009
2	Station Fire - Big Tujunga Canyon Road Guard Rail Replacement	Guard Rail Restoration	\$ 400,000	October 2009	November 2009
3	Station Fire - Upper Big Tujunga Canyon Road Guard Rail Replacement	Guard Rail Restoration	\$ 800,000	October 2009	November 2009
4	Culvert Trash Racks and Standpipes	Reconstruct damaged trash racks and standpipes in culvert inlet areas within MD5	\$ 1,784,000	November 2009	January 2010
5	Tree Removal	Remove burned/dead trees within County roadways in MD5.	\$ 550,000	Started September 9, 2009	October 2009
6	Debris Basin Expansions	Provide additional capacity at the Big Briar, Mullaly, Snover, Pickens, Starfall, Pinelawn, and Rowley debris basins.	TBD	TBD	TBD
7	City of La Canada Flintridge Erosion Barriers	Install concrete k-rail and/or other devices in the City of La Canada Flintridge public streets for debris/mud flow protection.	\$ 200,000	October 2009	November 2009
8	Mill Creek Office/Crew Room Reconstruction	Reconstruction of 1800 square foot office and crew quarters at the RD557A yard at Mill Creek	TBD	TBD	TBD
	TOTAL AUGUST/SEPTEMBER 2009 WILDFI	RES EMERGENCY CONSTRUCTION CONTRACTS	\$ 4,334,000		



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE ALHAMBRA, CALIFORNIA 91803-1331 Telephone: (626) 458-5100 http://dpw.lacounty.gov

December 23, 2009

ADDRESS ALL CORRESPONDENCE TO: P.O. BOX 1460 ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE

REFER TO FILE: PR-0

A3168-8

TO: Each Supervisor

FROM: Gail Farber

Director of Public Works

BOARD MOTIONS OF SEPTEMBER 8 AND 15, 2009 AGENDA ITEMS 61-A AND 54-D AUGUST/SEPTEMBER 2009 WILDFIRES EIGHTH DISASTER RECOVERY REPORT – DECEMBER 23, 2009

The August/September series of wildfires resulted in significant damage to County roads and infrastructure in the Angeles National Forest. On September 8, 2009, your Board made a finding that an emergency situation existed that required immediate measures be undertaken to repair the damage, restore access to homes and businesses, and prevent and reduce potential flooding and damage due to mudflows. Your Board authorized the Director of Public Works to negotiate and execute emergency construction contracts, amend existing service contracts, and enter into new short-term contracts. In accordance with the Public Contract Code, Government Code, and County Code, your Board must review the necessity of these emergency contracting procedures every 14 days. As part of this requirement, attached is the eighth Disaster Recovery Report.

In view of ongoing disaster recovery activities, it is recommended that your Board determine: (1) there is still a need to continue the emergency action and (2) the Executive Office continue to place this item on the agenda for Board review every 14 days in accordance with Section 22050 of the Public Contract Code, the California Emergency Services Act (Government Code, Section 8550 et seq.), and Section 2.68.120 of the Los Angeles County Code.

BS:al

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Attach.

cc: Chief Executive Office (William T Fujioka, Lari Sheehan)

Executive Office

Tota	l Damage	Estimates

Total Damage Estimates		
Transportation Tree Removal Guardrail Repair and Replacement Sign Replacement Striping Restoration Road Shoulder and Culvert Debris Removal Miscellaneous (Catch Basin, Headwall Repairs)	935,000 2,730,000 161,000 46,000 4,748,000 60,000	\$ 8,680,000
Public Works Buildings Demolish Assistant Dam Operator House (Big T. Dam) Office and Crew Quarters at RD 557A Subyard	14,000 1,185,000	1,199,000
Communication Systems San Gabriel Dam Pacoima Dam Big Tujunga Dam	15,000 30,000 150,000	195,000
Flood Control Repair Electrical System at Morris Dam Repair Electrical System at Big Tujunga Dam Repair/Replace Rain Gauges and Repeaters	100,000 250,000 15,000	365,000
Total		\$10,439,000

Roadway Culvert Upgrades and Debris Basin Cleanouts/Modifications Necessitated by the Fires

Transportation Road Culvert Inlet Upgrades Erosion Barriers (K-rails - Unincorporated Area)	1,977,000 429,000	\$ 2,406,000
Flood Control Debris Basin Cleanout Debris Basin Modification and Expansion Erosion Barriers (K-rails - City of La Canada)	1,800,000 5,000,000 280,000	7,080,000
	Total	\$ 9,486,000
Grand	l Total	\$ 19,925,000

Public Works Expenditures as of December 19, 2009

Total Expenditures (including overtime) Total Encumbrances	•	7,758,028 2,911,996
Total Expenditures and Encumbrances	\$ 10	0,670,024
Total Overtime ¹	\$	730,277

Notes:

COORDINATED AGENCY RECOVERY EFFORT (CARE)

On December 12, 2009, Los Angeles County experienced the beginning of several rainstorms that lasted until early Monday morning, December 14, 2009. The CARE team provided Public Information Officer (PIO) support to the media and later staffed the Public Works' Disaster Operations Center and the Foothills Incident Command center located in County Fire Camp 2 on the Jet Propulsion Laboratory campus in Pasadena. The CARE team handled both print and broadcast news media inquiries during the storm period. In preparation for the weekend storm, CARE distributed a press release on Friday, December 11, 2009, announcing the possible closure of Angeles Forest Highway, Angeles Crest Highway, Big Tujunga Canyon Road, and Upper Big Tujunga Canyon Road to through traffic in the Angeles Forest burn area due to rainstorms forecasted for Saturday evening.

The CARE team also issued an advisory press release on Saturday night, December 12, 2009, confirming that the roads in the forest burn area would be closed to through traffic.

The CARE team conducted a community meeting on Wednesday, December 16, 2009, in the Palos Verdes area to educate residents about storm season preparations following the Palos Verdes Fire.

The dedicated CARE website, which provides updated information about mudflow forecasts and road closures as well as links to other fire recovery and storm preparation information, is made available for residents' use during storm periods.

Overtime represents the amount paid to the employee (straight time + premium time). It does not match the posted amount in eCAPs and what is posted to the general ledger. It represents all overtime paid through November 30, 2009.

The CARE team continues distributing copies of the Homeowner's Guide for Flood Debris and Erosion Control at community meetings and provides an electronic version of the Guide on the website.

The CARE team is the final editing phase of the "Danger Debris Flow" public service announcement, which features an introduction from Supervisor Michael Antonovich's, for broadcast on city cable TV channels.

FOOTHILLS INCIDENT MANAGEMENT TEAM

The Foothills Incident Management Team, which includes the County Fire, Sheriff, and Public Works Departments and the County Office of Emergency Management; mobilized to handle debris flow incidents and evacuations during the storms which began the week of December 6, 2009. A Joint Incident Command Post was activated during the series of storms with the CARE PIOs in attendance. The PIOs completed numerous interviews with the media as well as developed Joint Incident Command Notification Protocols.

PIO TRAINING PROGRAM DESIGN EFFORT

Public Works' PIO attended the first working group meeting in conjunction with Los Angeles County's CARE Foothills Incident Planning and Public Information Officers (PIO) team held at the Los Angeles County Emergency Operations Center on Thursday, November 19, 2009.

Topics discussed included an update on the planning for CARE Foothill Incident PIO team in reference to coordinating multi-jurisdictional incident information and to establish a process to track and share incident information between agencies; and to start the planning process for designing disaster/emergency training exercises in regards to PIO duties and responsibilities that is scheduled to take place in 2010.

ROAD REOPENING-TRAFFIC COMMITTEE

The Station Fire caused damage to guardrail, signage, and pavement markings on Angeles Crest Highway (State Route 2), which is under the maintenance purview of Caltrans. We have remained in close contact with Caltrans and the US Forest Service (USFS) during the recovery phase of this disaster to ensure that steady progress is made towards reopening Angeles Forest Highway to commuter traffic in tandem with the reopening of Angeles Crest Highway. Angeles Crest Highway, Angeles Forest Highway, Big Tujunga Canyon Road, and Upper Big Tujunga Canyon Road were fully reopened on November 30, 2009.

The USFS is considering changes, if any, that are needed to its September 30, 2009, highway closure order once these routes are reopened to commuters. Specifically, the order had exceptions for local residents and permittees to use the highways, but an additional exception may need to be provided for commuters. In support of the USFS goals of keeping commuters from stopping their vehicles and entering forest lands and due to our own concern of vehicles parking in an active construction zone, we will be posting "no parking with tow-away provision" that will be in effect for much of Angeles Forest Highway, Big Tujunga Canyon Road, and Upper Big Tujunga Canyon Road.

TRANSPORTATION

Palos Verdes Fire

No impacts reported.

Morris Fire

Glendora Mountain Road and East Fork Road

Closed on August 25, 2009. The roads were reopened on October 1, 2009. Wooden covers for rural catch basins have been damaged. Road Maintenance Division (RMD) estimates the cost to replace the catch basin covers is \$10,000. Operational Services Division (OSD) reported that 20 signs related to flood control facilities have been damaged/destroyed. OSD estimates the cost to replace the signs at \$2,500.

Station Fire

Angeles Forest Highway - Mt. Emma Road/Angeles Crest Highway

Closed on August 26, 2009, and was fully reopened on November 30, 2009. It was closed again on December 12, 2009, at 12:01 a.m. due to the storm and reopened again on December 21, 2009, at 12:01 a.m., concurrent with Caltrans' reopening of Angeles Crest Highway. This road has a reported Average Daily Traffic (ADT) volume of 4,544 vehicles. It is a commuter route used by residents of the Antelope Valley.

Design Division (DES) estimates the cost of guardrail repairs at \$1,050,000. OSD reports that approximately 400 roadway signs were destroyed, and the cost to replace the signs is estimated to be \$80,000. OSD completed the sign replacement work on September 24, 2009. OSD has also restored the striping and raised pavement markers at an estimated cost of \$20,000. RMD completed the removal of 546 burned trees. RMD has reviewed 172 existing culverts and has determined that 49 locations need trash rack or standpipe to mitigate the effects of mud/debris flow during storms. Five locations on Angeles Forest Highway will be done by force account and the rest

will be by contract. We received the USFS approval letter for this work on October 30, 2009. Plans have been completed. The construction contract was awarded on November 12, 2009. Construction started on December 2, 2009, and is scheduled to be completed by early January 2010.

Plans for replacement of the guardrail were completed on September 11, 2009. The construction contract was awarded on September 24, 2009. Construction was completed on November 25, 2009. Pipe gates on Angeles Forest Highway just south of Angeles Crest Highway and just north of Aliso Canyon Road will be constructed by the contractor through a change order to aid in closing this road to traffic when needed during storms/disasters. The pipe gates are scheduled to be installed in December 2009.

DES has completed the contract plans to replace the fire-damaged bridge railings on the Mill Creek bridge at Angeles Forest Highway. The work will be added as a change order to the Angeles Forest Highway guardrail replacement project. The work is estimated to begin in late January 2010 and take three weeks to complete. The cost for this work is estimated to be about \$230,000. In the interim, DES requested Maintenance District (MD) 5 to install temporary K-rails and crash cushions at this location. MD 5 has installed the temporary K-rails and crash cushions at an estimated cost of \$20,000.

RMD installed by force account approximately 6,720 linear feet of K-rails at various locations along the shoulders of Angeles Forest Highway to keep mud and debris off the roadway during storms. The cost to purchase and install these K-rails is estimated at \$276,000. The K-rail installation was completed on November 16, 2009.

Big Tujunga Canyon Road – Los Angeles City Boundary/Angeles Forest Highway Closed on August 28, 2009, and was fully reopened on November 30, 2009. It was closed again on December 12, 2009, at 12:01 a.m. due to the storm. The road was reopened on December 13, 2009, at 7:05 p.m. This road has a reported ADT of 825 vehicles.

DES estimates the cost of guardrail repairs at \$560,000. OSD completed the replacement of 200 roadway signs effective September 24, 2009, at an estimated cost of \$40,000. OSD has also restored the striping and raised pavement markers at an estimated cost of \$10,000. RMD completed the removal of 150 burned trees. RMD has reviewed 60 existing culverts and has determined 35 locations that need trash rack or standpipe to mitigate the effects of mud/debris flow during storms. We received the USFS approval letter for this work on October 30, 2009. Plans have been completed.

The construction contract was awarded on November 12, 2009. Construction started December 2, 2009, and is scheduled to be completed by early January 2010.

RMD recommended installing by force account approximately 2,140 linear feet of K-rails at various locations along the shoulders of Big Tujunga Canyon Road to keep mud and debris off the roadway during storms. The cost to purchase and install these K-rails is estimated at \$88,000. The K-rail installation was completed on November 2, 2009.

Plans for replacement of the guardrail were completed on September 16, 2009. The construction contract was awarded on September 28, 2009. Construction was completed on November 25, 2009. Pipe gates on Big Tujunga Canyon Road just east of Vogel Flats Road and just north of Angeles Forest Highway will be constructed by the contractor through a change order to aid in closing this road to traffic when needed during storms/disasters. The pipe gates are scheduled to be installed in December 2009.

<u>Upper Big Tujunga Canyon Road – Angeles Forest Highway/Angeles Crest Highway</u> Closed on August 28, 2009, and was fully reopened on November 30, 2009. It was closed again on December 12, 2009, at 12:01 a.m. due to the storm, and fully reopened again on December 21, 2009, at 12:01 a.m., concurrent with Caltrans' reopening of Angeles Crest Highway. This road has a reported ADT of 176 vehicles.

DES estimates the cost of guardrail repairs at \$1,120,000. OSD has replaced approximately 100 roadway signs effective September 24, 2009, at an estimated cost of \$21,000. OSD completed the sign replacement work on September 24, 2009. OSD has also restored the striping and raised pavement markers at an estimated cost of \$9,000. RMD completed the removal of approximately 400 burned trees. RMD has reviewed 84 existing culverts and has determined that 36 locations need trash rack or standpipe to mitigate the effects of mud/debris flow during storms. We received the USFS approval letter for this work on October 30, 2009. Plans have been completed. The construction contract was awarded on November 17, 2009. Construction started on December 2, 2009, and is scheduled to be completed by January 2010.

RMD recommends installing by force account approximately 1,100 linear feet of K-rails at various locations along the shoulders of Upper Big Tujunga Canyon Road to keep mud and debris off the roadway during storms. The cost to purchase and install these K-rails is estimated at \$45,000. The K-rail installation was completed on November 16, 2009.

Plans for replacement of the guardrail were completed on September 21, 2009. The construction contract was awarded on October 1, 2009. Construction was

completed on November 25, 2009. Pipe gates on Upper Big Tujunga Canyon Road just west of Angeles Crest Highway and just east of Angeles Forest Highway will be constructed by the contractor through a change order to aid in closing this road to traffic when needed during storms/disasters. The pipe gates are scheduled to be installed in December 2009.

Aliso Canyon Road - Angeles Forest Highway/Ave Y-8

Closed on August 30, 2009. Reopened on September 3, 2009. DES and RMD estimate that guardrail repairs at bridge approaches for Bridge No. 3797 will cost \$49,000. This work is included in the guardrail contract for Angeles Forest Highway. RMD will need to remove three burned trees pending USFS approval. OSD has replaced the approximately 20 roadway signs that were destroyed by the fires at an estimated cost of \$5,000. OSD has also restored the striping and raised pavement markers at an estimated cost of \$3,000.

Mt. Emma Road – 47th Street East/Angeles Forest Highway Closed on August 30, 2009. Reopened on September 3, 2009.

Little Tujunga Canyon Road - Gold Creek Road/Sand Canyon Road

Closed on August 29, 2009. Reopened on September 6, 2009. RMD conducted a detailed survey of the guardrails and found no fire-damaged guardrails. Upon field review, OSD reports no damage to the roadway signs and striping. RMD found no trees or roadway drainage structures impacted by the fire.

Sand Canyon Road

Closed on August 29, 2009. Reopened on September 9, 2009. OSD reports no damage to the roadway signs and striping. RMD found no trees or roadway drainage structures impacted by the fire.

Mt. Wilson Red Box Road

Closed on August 29, 2009. The road was reopened by emergency personnel on September 28, 2009. DES conducted a detailed survey of the guardrails and found no fire-damaged guardrails. OSD reports no damage to the roadway signs. OSD has restored the striping at an estimated cost of \$4,000. RMD completed the removal of approximately 23 burned trees. RMD has assessed roadway drainage structures and recommended trash rack/standpipes at eight locations. This work will be done by County forces. This work started on November 9, 2009, and is scheduled to be completed by December 4, 2009.

Stonyvale Road at Vogel Flats Road

This road was closed on December 13, 2009, due to a mudslide from the recent storm, and reopened again on December 15, 2009, at 1:00 p.m.

Other

Needed drainage inlet upgrades, such as trash racks and stand pipes, have been identified by RMD along Angeles Forest Highway, Big Tujunga Canyon Road, Upper Big Tujunga Canyon Road, and Mt. Wilson Red Box Road to protect these roads from storm flows. The work was divided into three contracts, allowing for up to three contractors to be working at the same time. The estimate to install these improvements is \$957,400 of which \$211,400 will be done by force account and \$746,000 by contract. We received the USFS approval letter for this work on October 30, 2009. The construction contract was awarded on November 12, 2009. Construction began on December 2, 2009, and is scheduled to be completed by early January 2010.

The removal of 1,124 fire damaged trees along Angeles Forest Highway, Big Tujunga Canyon Road, Upper Big Tujunga Canyon Road, Mt. Wilson Red Box Road, and Aliso Canyon Road was completed on October 4, 2009. This work was done by force account and emergency contract at an estimated cost of \$704,000. RMD estimates approximately 1,700 trees/shrubs need to be removed within the culvert inlet areas, which will be done by force account at an estimated cost of \$270,000. All tree removal due to the Station Fire was completed on December 19, 2009. Approximately 42,000 cubic yards of debris is recommended to be removed from the culvert inlet areas by force account at an estimated cost of \$800,000. This work began on November 16, 2009, and is scheduled to be completed by January 22, 2010.

As a result of the recent rain storms, there is additional mud and debris that will need to be removed from the roadways and culvert inlets. Damage estimate assessment efforts are currently estimated at an additional \$400,000.

RMD replaced 548 burned culvert markers at an estimated cost of \$20,000. This work was completed on November 6, 2009.

The total number of raised reflective markers installed was 4,300.

PUBLIC WORKS BUILDING DAMAGE

Palos Verdes Fire

No impacts reported.

Morris Fire

No impacts reported.

Station Fire

The Assistant Dam Operator's residence at Big Tujunga Dam was destroyed in the Station Fire. Project Management Division II (PMD II), County Disaster Assistant Team, and the Office of Emergency Services inspected the house at Big Tujunga Dam on October 10, 2009. The demolition and removal of debris was completed on November 6, 2009. The actual cost for the demolition work was \$13,850, and FMD will not rebuild the residence.

The office and crew quarters (1800 sf) at the RD 557A yard at Mill Creek were destroyed in the Station Fire. Architectural Engineering Division (AED) estimates the demolition and cost to rebuild will be \$1,185,000. The work will likely be performed under a Job Order Contract.

OTHER COUNTY DEPARTMENTS BUILDING DAMAGE

No impacts reported.

PRIVATE PROPERTY DAMAGE

Palos Verdes Fire

Three structures in the City of Rolling Hills suffered eave/roof damage. Building and Safety (B&S) is working with the City to assist residents with erosion control advice and with building permits for any necessary fire damage repairs.

Morris Fire

No impacts reported.

Station Fire

As of September 10, B&S staff has inspected 67 properties with destroyed or damaged structures as reflected in the following table:

OCCUPANCY	DESTROYED (100%)	DAMAGED (<100%)
Dwellings	32	4
Cabins	26	1
Detached Garage	23	3
Accessory (RES)	19	8
Commercial	1	2
Other	8	2
Total	109	20

The number of affected properties/structures may grow as new locations are discovered by the Fire Department and/or reported by the public. Damage estimate is not available at this time.

B&S is currently working with property owners to facilitate the proper demolition of the destroyed structures and the removal of debris. Property owners have been advised to (1) contact their insurance companies prior to cleanup, (2) verify that utilities have been cleared for safety by the utility companies (gas, electrical, and water), and (3) use a licensed contractor to perform the cleanup.

A demolition permit must be obtained from B&S. A 10-day notification to South Coast Air Quality Management District (SCAQMD) is required prior to cleanup along with the filing of a construction debris recycling plan with Environmental Programs Division (EPD). BFI is providing large debris roll-off bins free of charge to residents in the Big Tujunga Canyon vicinity as part of the cleanup and recovery effort.

EPD coordinated with various agencies to begin collecting and managing household hazardous waste and asbestos. As a result, the State Department of Toxic Substances Control will be funding and conducting free household hazardous waste and asbestos cleanup services for properties affected by the Station Fire.

In addition, EPD worked with the Los Angeles and Lahontan Regional Water Quality Control Boards to authorize the acceptance of fire debris at Sunshine Canyon, Puente Hills, Chiquita Canyon, Antelope Valley, and Lancaster Landfills.

Browning Ferris Industries and Waste Management Inc., are working with community groups and town councils to provide donated roll-off bins for community cleanup efforts and to provide discounted gate rates at Sunshine Canyon and Lancaster Landfills, respectively, for all self-hauled fire debris. In addition, Browning Ferris Industries is providing discounted roll-off bin services for individual property owners, including making available one-hundred \$150 vouchers on a first-come, first-served basis.

In coordination with our B&S, EPD has waived all waste diversion requirements for debris from fire-damaged structures and removed the need for property owners to make an extra trip to Public Works' headquarters.

COMMUNICATION SYSTEMS

Palos Verdes Fire

No impacts reported.

Morris Fire

A communication line at the San Gabriel Dam facility was damaged as a result of the Morris Fire and has been repaired at a cost of approximately \$5,000.

Station Fire

Communication lines and poles at the Big Tujunga Dam facility were damaged. ITD will work with OSD to determine reconstruction options (e.g. poles versus underground) and provide estimated costs. ITD is unaware of communication damage to Pacoima Dam as a result of the Station Fire.

The Road Weather Information System (RWIS) at RD 557A (Mill Creek) is not operational. ISD is assessing the cost to repair the system.

ITD determined there is no communication damage to Cogswell Dam and Mt. Disappointment. Both sites are on generator power.

FLOOD CONTROL SYSTEM

Palos Verdes Fire

No impacts reported. Mudflow phase maps have been completed and are currently available through the Public Works and CARE websites.

Morris Fire

No impacts reported to flood control operation. Minor damages were sustained to phone line, power lines, and signage in the vicinity of Morris Dam. The cost to repair this damage is approximately \$100,000. Electricity has been restored to Morris Dam.

Post fire mudflow impacts to San Gabriel, Morris, and Cogswell Dams have been evaluated and recommendations were made for measures to prevent damage to facilities, maintain reliable dam operations, and provide dependable access on-site of these dams.

Station Fire

Post fire mudflow impacts to Big Tujunga Dam have been evaluated and recommendations were made for measures to prevent damage to facilities, maintain reliable dam operations, and provide dependable access on-site.

The clean-out of seven debris basins, namely Dunsmuir, Eagle, Gould, Mullaly, Pinelawn, Rowley, and Shields have been completed. The clean-out of Gould Upper Debris Basin commenced on November 9, 2009, and was completed on December 2, 2009. This work provides additional capacity for the anticipated increased volume of debris in the coming storm season resulting from the fire. The cost of the debris removal is estimated to be \$1.8 million. Flood Maintenance Division (FMD) has completed the temporary capacity enhancements for Mullaly and Snover. Work is in progress for Big Briar and Pickens. It is anticipated that these projects will be respectively completed by December 31, 2009, and January 8, 2010.

WRD and DES have evaluated the need to increase storage capacity at six debris basins within the fire area, namely Big Briar, Mullally, Snover, Pickens, Starfall, and Pinelawn. Scope of work and corresponding cost estimates have been developed for all with the exception of Rowley Debris Basin. The estimated cost for these temporary FMD has completed the work at improvements is approximately \$650,000. Starfall Debris Basin and will be installing the temporary capacity enhancements at the remaining five debris basins within the next four weeks. In addition, WRD is still investigating and evaluating locations that may require rail and timber structures or similar type of structures to minimize property damage. WRD is pursuing the permanent enlargements to six undersized debris basins in burned watersheds of the Station Fire, namely Big Briar, Mullally, Snover, Pickens, Starfall, and Pinelawn. The concepts for all six have been developed. The development of design plans and specifications has been initiated. The goal is to have all of the construction contracts awarded by the end of April using the emergency contract authority. All construction

work is anticipated to be completed by October 15, 2010. The cost for these basin improvements is estimated to be approximately \$5 million.

Public Works Engineering Advice Teams have provided advice to approximately 480 residences within the City of La Canada-Flintridge, City of Glendale, City of Los Angeles, and the unincorporated County areas of La Crescenta, Big Tujunga, and Acton. WRD completed their efforts to provide engineering advice to residents of City of Los Angeles and have provided the City recommended mudflow phase maps for their use and consideration. Engineering advice is being provided on an "as-requested" basis.

OSD completed their inspection of the power lines at Big Tujunga Dam and an initial recovery scoping meeting with FMD, WRD, and OSD occurred on September 23, 2009. Electrical upgrades may likely be constructed with the recovery process. WRD will be providing project updates with schedules and estimates. A contractor will be needed to perform the work to bring power to the dam and outlying facilities.

Upon further investigation only one ALERT rain gauge station and one repeater were damaged or destroyed at Chilao and Mt. Gleason, respectively. The rain gauge and repeater have been replaced. The estimated cost to repair and/or replace the equipment is \$15,000.

WRD has entered into five funding agreements with the Natural Resources Conservation Service (NRCS) for the implementation of mudflow protective measures for residences along streets potentially impacted by mudflows as well as the installation of temporary capacity enhancements at four debris basins/inlets.

RMD is placing K-rail, sandbags, and crash barrels in La Canada-Flintridge and La Crescenta per approved agreements with NRCS. The installation of K-rail and associated crash barrels has been completed. Approximately 2,000 sandbags have been installed to date.

Mudflow phasing maps for the unincorporated County areas of La Crescenta, Tujunga, Acton, as well as the Cities of La Canada-Flintridge, Glendale, and Los Angeles have been completed and are currently available on the DPW and CARE websites.

FMD has constructed pipe and timber debris retaining walls at various locations in Dunsmuir Sediment Placement Site to keep the debris from going onto the residential streets. FMD amended an existing As-Needed Facility Sweeping contract under the Director's authority to increase the total contract amount by \$100,000 to sweep access

roads for our various flood control facilities within the fire- impacted areas effective November 17, 2009.

WATERWORKS SYSTEMS

No impacts reported.

COUNTY SEWER SYSTEMS

No impacts reported.

COUNTY AIRPORTS

No impacts reported.

County of Los Angeles Department of Public Works AUGUST/SEPTEMBER 2009 WILDFIRES EVENTS EMERGENCY CONSTRUCTION CONTRACTS

ļ			ESTIMATED	CONSTRUCTION	UCTION
Ω	PROJECT NAME	DESCRIPTION/SCOPE OF WORK	CONTRACT	ESTIMATED START DATE	ESTIMATED FINISH DATE
-	Station Fire - Angeles Forest Highway Guardrail Replacement	Guardrail Restoration.	\$ 700,000	October 2009	November 2009
2	Station Fire - Big Tujunga Canyon Road Guardrail Replacement	Guardrail Restoration.	\$ 465,000	October 2009	November 2009
ო	Station Fire - Upper Big Tujunga Canyon Road Guardrail Restoration. Guardrail Replacement	Guardrail Restoration.	\$ 655,000	October 2009	November 2009
4	Angeles Forest Highway - Station Fire Culvert Improvement Project	Construct trash racks or standpipes in culvert inlet areas within MD 5.	\$ 240,000	December 2009	January 2010
5	Big Tujunga Canyon Road - Station Fire Culvert Improvement Project	Construct trash racks or standpipes in culvert inlet areas within MD 5.	\$ 251,000	December 2009	January 2010
9		Upper Big Tujunga Canyon Road - Station Fire Construct trash racks or standpipes in culvert inlet areas within Culvert Improvement Project	\$ 255,000	December 2009	January 2010
	Tree Removal	Remove burned/dead trees within County roadways in MD 5.	\$ 550,000	September 2009	October 2009
ω	Debris Basin Expansions	Provide additional capacity at the Big Briar, Mullaly, Snover, Pickens, Starfall, Pinelawn, and Rowley Debris Basins.	\$ 5,000,000	April 2010	October 2010
6	Mill Creek Bridge - Bridge Rail and Approach Guardrail Replacement	Repair and replace fire damaged bridge railing and approach guardrails at the Mill Creek Bridge at Angeles Forest Highway.	\$ 230,000	November 2009	February 2010
	TOTAL AUGUST/SEPTEMBER 2009 WILDFIRES EMERGENCY	RES EMERGENCY CONSTRUCTION CONTRACTS	\$ 8,346,000		